

NWL Report No. 2283
April 1969

AD 689 113

**COMPUTER ASSISTED INSTRUCTION:
A SELECTED BIBLIOGRAPHY AND KWIC INDEX**

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FOREWORD

This technical report supersedes Technical Memorandums numbered K-49/66, K-3/67 and K-49/67. The references contained in the report represent those reviewed in a thirty-month study of Computer Assisted Instruction conducted by the Programming Systems Branch of the Computer Programming Division. The work for the period June through August 1966 was done jointly by Dr. Wade J. Temple (Physics Department, Randolph-Macon College) and Professor Gerald L. Engel (Mathematics Department, Hampden-Sydney College). Work since that time has been done by Professor Engel.

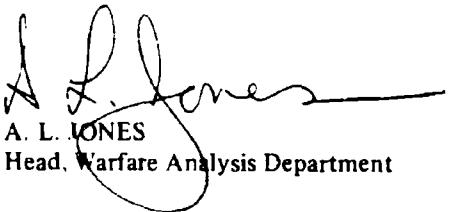
Appreciation is expressed to the educational and industrial institutions that have supplied reports of their work. Thanks are also given to Mr. M. Brody of the Computer Facilities Division for his assistance in the running of the KWIC Index on the IBM 1401 computer.

Comments or suggestions on the format or presentation of material and any additional materials for future updatings are earnestly requested. Address correspondence to:

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ABSTRACT

The report provides an annotated bibliography, referenced by **Key Word In Context KWIC** index to select references on Computer Assisted Instruction (CAI). This report supersedes Technical Memorandum numbered K-49/66, K-3/67, and K-49/67.

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I INTRODUCTION

The contents of this report represent the literature reviewed in a study of Computer Assisted Instruction and its potential for use in training within the Warfare Analysis Department of the U S Naval Weapons Laboratory. The purpose of this report is to assist others interested in Computer Assisted Instruction to locate documents for their own studies. The KWIC Index presentation was adopted to ease updating of material and access by the users. The numbering system is arbitrary and merely indicates the order in which the Articles were received. The numbers in Section II refer to the annotated bibliographic information in Section III.

The KWIC Index was prepared by means of the KWIC Index program for the IBM 1401 Computer. Material in the bibliographic section is in the following order: author and affiliation, title of article, source information, key words, annotation. Permutation in the KWIC Index is run on the title and key words. Common words such as *and* and *the* are automatically excluded by the program. In addition, several recurring words, such as *computer*, which give little information have been suppressed in preparation of the KWIC.

Abbreviations have been held to a minimum, but three fairly common ones, SDC-Systems Development Corporation, IBM-International Business Machines, and DEC-Digital Equipment Corporation, remain.

Computer Assisted Instruction may be thought of as any means by which educational processes are furthered by the use of computers. Every effort has been made to keep this bibliography as general as the definition. There are references to work in interactive computational languages, gaming and simulation, and education data processing. Most of the material, however, deals with tutorial interaction by means of a computer since this area appears to have the strongest relationship to the problems of training within the Laboratory. Also included are several references, included as background, in the area of programmed texts and teaching machines.

It is expected that any bibliography of this type will reflect the background and project direction of the author. However, it is hoped that this document will be as general a reference as possible. Any articles which the user feels would be appropriate for inclusion are requested so that they may be included in future updatings.

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UNIVAC
COPPI, COMPUTER ORIENTED PROGRAMMED INSTRUCTION, A
PROGRAMMING LANGUAGE FOR EDUCATION.=
UNIVAC DIVISION OF THE SPERRY RAND CORPORATION
UNIVAC

DETAILED DESCRIPTION OF THE UNIVAC ENTRY IN THE CAI
FIELD.

Security Classification

DOCUMENT CONTROL DATA - R & D

(Security classification of title, body of abstract and indexing annotation must be entered when the overall report is classified)

| | |
|--|---|
| 1. ORIGINATING ACTIVITY (Corporate author) U. S. Naval Weapons Laboratory Dahlgren, Virginia | 2a. REPORT SECURITY CLASSIFICATION UNCLASSIFIED |
|--|---|

3. REPORT TITLE

COMPUTER ASSISTED INSTRUCTION: A SELECTED BIBLIOGRAPHY AND KWIC INDEX

4. DESCRIPTIVE NOTES (Type of report and, inclusive dates)

5. AUTHOR(S) (First name, middle initial, last name)

Gerald L. Engel

| | | |
|------------------------------|--|-----------------|
| 6. REPORT DATE April 1969 | 7a. TOTAL NO. OF PAGES 197 | 7b. NO. OF REFS |
| 8a. CONTRACT OR GRANT NO. | 9a. ORIGINATOR'S REPORT NUMBER(S) | |
| b. PROJECT NO. | 2283 | |
| c. | 9b. OTHER REPORT NO(S) (Any other numbers that may be assigned to this report) | |
| d. | | |

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| 11. SUPPLEMENTARY NOTES | 12. SPONSORING MILITARY ACTIVITY |
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13. ABSTRACT

The report provides an annotated bibliography, referenced by Key Word In Context KWIC index to select references on Computer Assisted Instruction (CAI). This report supersedes Technical Memorandum numbered K-49/66, K-3/67, and K-49/67.